

PTO/SB/21 (05-03)

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U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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**TRANSMITTAL
FORM**

(to be used for all correspondence after initial filing)

TRANSMITTAL FORM (to be used for all correspondence after initial filing)	Application Number	10/517,769	
	Filing Date	December 27, 2005	
	First Named Inventor	Douglas John Thomson	
	Art Unit	2856	
	Examiner Name	n/a	
Total Number of Pages in This Submission	5	Attorney Docket Number	9157-58

ENCLOSURES (check all that apply)

<input type="checkbox"/> Fee Transmittal Form <input type="checkbox"/> Fee Attached <input type="checkbox"/> Amendment / Response <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input checked="" type="checkbox"/> Information Disclosure Statement <input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Response to Missing Parts/ Incomplete Application <input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53	<input type="checkbox"/> Assignment Papers (for an Application) <input type="checkbox"/> Drawing(s) <input type="checkbox"/> Licensing-related Papers <input type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert to a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Request for Refund <input type="checkbox"/> CD, Number of CD(s) _____	<input type="checkbox"/> After Allowance Communication to Group <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to Group (Appeal Notice, Brief, Reply Brief) <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input type="checkbox"/> Other Enclosure(s) (please identify below):		
<table border="1"><tr><td>Remarks</td><td></td></tr></table>			Remarks	
Remarks				

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm or Individual name	BERESKIN & PARR Stephen M. Beney Registration No. 41,563
Signature	
Date	October 25, 2005

CERTIFICATE OF MAILING

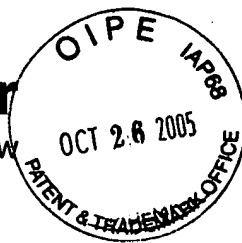
I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below.			
Typed or printed name			
Signature		Date	

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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Bereskin & Parr

INTELLECTUAL PROPERTY LAW



Appl. No : 10/517,769
Applicant : Douglas John Thomson et al.
Filed : December 27, 2004
Title : MEASURING STRAIN IN A STRUCTURE (BRIDGE) WITH A
TEMPERATURE COMPENSATED) ELECTROMAGNETIC
RESONATOR (MICROWAVE CAVITY)
TC./A.U. : 2856
Examiner :

Docket No. : 9157-58

Honorable Commissioner for Patents
P. O. Box 1450
Alexandria, Virginia 22313-1450

October 20, 2005

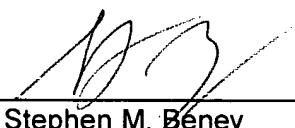
LETTER

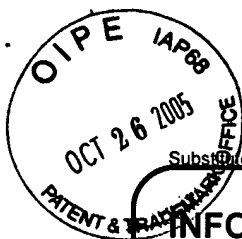
Sir:

In accordance with 37 CFR 1.97 and 1.98, and in recognition of the duty of disclosure set forth in 37 CFR 1.56, the applicant hereby submits an information Disclosure Statement including a listing of patents of which the applicant is aware. In accordance with the requirements of 1.97(b)(1) and (3), this Information Disclosure Statement is filed within three months of the filing date of the application or before the mailing date of a first Office Action on the merits, whichever event occurs last.

Respectfully submitted,

Bereskin & Parr

By 
Stephen M. Beney
Reg. No. 41,563
Tel: 416 957 1697



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Substitute for form 1449A/PTO

Complete if Known

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 1 of 3

Application Number	10/517,769
Filing Date	December 27, 2004
First Named Inventor	Douglas John Thomson
Art Unit	2856
Examiner Name	N/A
Attorney Docket Number	9157-58

U.S. PATENT DOCUMENTS

Examiner Initials *	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code ² (if known)			
		US- 3,909,713	09-30-1975	Billeter	
		US- 4,651,571	03-24-1987	McGlade	
		US- 4,843,346	06-27-1989	Heymann et al.	
		US- 5,181,423	01-26-1993	Philipps et al.	
		US- 5,227,798	07-13-1993	Hildebrand	
		US- 5,433,115	07-18-1995	Spillman, Jr. et al.	
		US- 5,703,576	12-30-1997	Spillman, Jr. et al.	
		US- 5,764,161	06-09-1998	Schier	
		US- 5,821,425	10-13-1998	Mariani et al.	
		US-			
		US-			
		US-			
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FOREIGN PATENT DOCUMENTS

Examiner Initials *	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)				
		GB2212273	07-29-1989	Mr. Farley		
		FR2700846	07-29-1994	Mr Brugidou		
		JP60203828	10-15-1985	Toshiba		
		JP05264474	10-12-1993	Daipoole		
		DE2007447	09-17-1970	Decca		

Examiner
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Considered

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Sheet 2 of 3

Complete if Known

Application Number	10/517,769
Filing Date	December 27, 2004
First Named Inventor	Douglas John Thomson
Art Unit	2856
Examiner Name	N/A
Attorney Docket Number	9157-58

NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		"Deployment of a fiber Bragg grating-based measurement system in a structural health monitoring application", M. D. Todd, G. A. Johnson and S. T. Vohra, Naval Research Laboratory, Code 5673, Washington, DC 20375, USA, Smart Mater. Struct. 10 (2001) 534-539.	
		"Conceptual framework of a remote wireless health monitoring system for large civil structures", Darryll J. Pines and Philip A. Lovell, Department of Aerospace Engineering, University of Maryland, College Park, MD, USA in Smart Mater. Struct. 7 (1998) 627-636.	
		W. R. Fowkes, "Cavity Resonator Measurements at 90 GHz", ARDB Technical Note 164, pgs. 1-6.	
		McGray-Hill Encyclopedia of Science & Technology, "An international reference work in twenty volumes including an index", 9 th Edition, pgs 453-455 and 585-587.	
		William H. Hayt, Jr., "Engineering Electromagnetics", Fifth Edition, McGraw-Hill, Inc., pgs. 416-427.	
		John d. Kraus, "Electromagnetics", Fourth Edition, McGraw-Hill, Inc., pgs. 698-705.	
		David H. Staelin, et al., "Electromagnetic Waves", Prentice Hall, Upper Saddle River, New Jersey 07458, pgs. 336-349, 372-381, 390-401	
		http://www.fnrf.science.cmu.ac.th/theory/waveguide/Waveguide%20theory%2014.html .	
		http://www.tpub.com/neets/book11/44h/htm .	
		"Tunable laser demodulation of various fiber Bragg grating sensing modalities", R. M. Measures, M. M. Ohn, S. Y. Huang, J. Bigue and N. Y. Fan, Smart Mater. Struct. 7 No. 2 (April 1998) 237-247.	
		"Structural monitoring by curvature analysis using interferometric fiber optic sensors", D. Inaudi, S. Vurpillot, N. Casanova and P. Kronenberg, Smart Mater. Struct. 7 No. 2 (April 1998) 199-208.	

Examiner Signature		Date Considered	
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¹Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.

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Sheet 3 of 3

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Filing Date	December 27, 2004
First Named Inventor	Douglas John Thomson
Art Unit	2856
Examiner Name	N/A
Attorney Docket Number	9157-58

NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		"Structural health monitoring of innovative bridges in Canada with fiber optic sensors", R. C. Tennyson, A. A. Mufti, S. Rizkalla, G. Tadros and B. Benmokrane, Smart Mater. Struct. 10 No. 3 (June 2001) 560-573.	

Examiner
SignatureDate
Considered

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